

Supplementary Information

Supplementary Table 1 Specimen details and GenBank accession numbers for all modern sequence used.

Tissue voucher: ABTC – The Australian Biological Tissue Collection, South Australian Museum, Adelaide, Australia; AMNH – American Museum of Natural History, New York. References: 1 - this paper, 2 - Aplin et al. (2011), 3 - Wyatt et al. (2008), 4 - Tolleanare et al. (2010), 5 - Pages et al. (2010), 6 - Guo et al. (2019), 7 - Suzuki et al. (2000), 8 - Chinen et al. (2005), 9 - Koma et al (2013), 10 - Yasuda et al (2014), 11 - Bastos et al (2011), 12 - Balakirev et al (2012), 13 - Lu et al. (2012), 14 - Conroy et al. (2013), 15 - Lack et al. (2012), 16 - Pages et al. (2013).

Sample number	LOCALITY	MtClade	MtClade Haplotype	MtClade Haplotype Genbank Accession	Nuclear Lineage	Ref.
A1-8	Shanghai, China	RrC II	HAP 1		NA	1
A3-3	Shanghai, China	RrC II	HAP 14		NA	1
AB033702	Krakatau, Indonesia	RrC I	HAP 47	AB033702	NA	7
AB211040	Kyushu, Shibushi, Japan	RrC II	HAP 1	AB211040	NA	8
AB674753	Hai Phong, Vietnam	RrC II	HAP 1	AB674753	NA	9
AB674755	Hanoi City, Vietnam	RrC II	HAP 1	AB674755	NA	9
AB674756	Hanoi City, Vietnam	RrC II	HAP 1	AB674756	NA	9
AB674757	Hanoi City, Vietnam	RrC II	HAP 1	AB674757	NA	9
AB674758	Hanoi City, Vietnam	RrC II	HAP 1	AB674758	NA	9
AB762715	Kandy District, Udunuwara or Yatinuwara, Central Province, Sri Lanka	RrC I	HAP 35	AB762715	NA	10
AB762738	Kandy District, Udunuwara or Yatinuwara, Central Province, Sri Lanka	RrC I	HAP 35	AB762738	NA	10
ABTC106070	Wongalara Wildlife Sanctuary, NT, Australia	RrC I	HAP 22	OL865465	NA	1
ABTC106071	Wongalara Wildlife Sanctuary, NT, Australia	RrC I	HAP 22		NA	1
ABTC108861	Talang, Khammouane Province, Laos	RrC IV	HAP 35	OL865553	LI	1
ABTC108864	Talang, Khammouane Province, Laos	RrC IV	HAP 26	OL865548	LIV	1
ABTC108875	Talang, Khammouane Province, Laos	RrC IV	HAP 51	OL865566	LIV	1
ABTC108881	Talang, Khammouane Province, Laos	RrC IV	HAP 16	OL865542	LIV	1
ABTC108893	Talang, Khammouane Province, Laos	RrC II	HAP 29	OL865496	NA	1
ABTC108894	Talang, Khammouane Province, Laos	RrC IV	HAP 42	OL865559	NA	1

ABTC108897	Talang, Khammouane Province, Laos	RrC IV	HAP 64	OL865578	LIV	1
ABTC108905	Talang, Khammouane Province, Laos	RrC IV	HAP 53	OL865568	LIV	1
ABTC108906	Talang, Khammouane Province, Laos	RrC IV	HAP 36	OL865554	NA	1
ABTC108920	Talang, Khammouane Province, Laos	RrC II	HAP 29		NA	1
ABTC108923	Talang, Khammouane Province, Laos	RrC IV	HAP 25	OL865547	NA	1
ABTC108927	Talang, Khammouane Province, Laos	RrC II	HAP 15	OL865487	NA	1
ABTC108940	Talang, Khammouane Province, Laos	RrC II	HAP 1		NA	1
ABTC108945	Talang, Khammouane Province, Laos	RrC II	HAP 15		NA	1
ABTC109000	Ban Done, Khammouane Province, Laos	RrC II	HAP 32	OL865498	NA	1
ABTC109003	Ban Done, Khammouane Province, Laos	RrC IV	HAP 17		LIV	1
ABTC109004	Ban Done, Khammouane Province, Laos	RrC IV	HAP 27	OL865549	LIV	1
ABTC109006	Ban Done, Khammouane Province, Laos	RrC IV	HAP 29	OL865550	LIV	1
ABTC109021	Pha Lom, Savanaketh, Laos	RrC IV	HAP 37	OL865555	LIV	1
ABTC109023	Pha Lom, Savanaketh, Laos	RrC IV	HAP 45	OL865561	LIV	1
ABTC109024	Pha Lom, Savanaketh, Laos	RrC IV	HAP 41	OL865558	LIV	1
ABTC109025	Pha Lom, Savanaketh, Laos	RrC IV	HAP 39	OL865557	LIV	1
ABTC109029	Pha Lom, Savanaketh, Laos	RrC IV	HAP 46	OL865562	NA	1
ABTC109030	Pha Lom, Savanaketh, Laos	RrC IV	HAP 38	OL865556	NA	1
ABTC109033	Comilla District, Chittagong Division, Bangladesh	RrC II	HAP 81		LII	1
ABTC109034	Comilla District, Chittagong Division, Bangladesh	RrC II	HAP 81		LII	1
ABTC109035	Comilla District, Chittagong Division, Bangladesh	RrC II	HAP 81		LII	1
ABTC109036	Comilla District, Chittagong Division, Bangladesh	RrC II	HAP 41	OL865504	LII	1
ABTC109046	Tatai Lieu, Cardamom Mountains, Koh Kong, Cambodia	RrC IV	HAP 60	OL865575	LIV	1
ABTC109053	Hatsua village, Pak Ou District, Luang Prabang, Laos	RrC II	HAP 28	OL865495	NA	1
ABTC109054	Hatsua village, Pak Ou District, Luang Prabang, Laos	RrC II	HAP 27		NA	1
ABTC109055	Hatsua village, Pak Ou District, Luang Prabang, Laos	RrC II	HAP 71		NA	1

ABTC109063	Kampong Cham, Kampong Cham, Cambodia	RrC IV	HAP 69	OL865582	LIV	1
ABTC109065	Chennai, Chennai, India	RrC II	HAP 48		LI	1
ABTC109066	Chennai, Chennai, India	RrC II	HAP 48		LI	1
ABTC109068	Chennai, Chennai, India	RrC II	HAP 48		LI	1
ABTC109070	Chennai, Chennai, India	RrC II	HAP 46		LI	1
ABTC109246	near Ho Chi Minh City, Vietnam	RrC IV	HAP 65	OL865579	LI	1
ABTC109309	Zhans property, Qld, Australia	RrC I	HAP 1		LI	1
ABTC109311	Henkers Road, Qld, Australia	RrC I	HAP 1		LI	1
ABTC109339	Burra, NSW, Australia	RrC II	HAP 48		LI	1
ABTC109344	South Murwillumbah, NSW, Australia	RrC I	HAP 5	OL865453	NA	1
ABTC109345	Downer, ACT, Australia	RrC I	HAP 2	OL865450	LI	1
ABTC109479	Eagleby, Qld, Australia	RrC I	HAP 1		NA	1
ABTC109480	Amiens, Qld, Australia	RrC II	HAP 46	OL865506	LI	1
ABTC109673	5 Waters Street, Rapid Creek, NT, Australia	RrC I	HAP 1		LI	1
ABTC109675	29 Gardens Hill Crescent, The Gardens, NT, Australia	RrC I	HAP 15		LI	1
ABTC109682	7 Leichardt Crescent, Fannie Bay, NT, Australia	RrC I	HAP 4		NA	1
ABTC109691	29 Henry Street, Stuart Park, NT, Australia	RrC I	HAP 15		LI	1
ABTC109694	5 Hakea Street, Nightcliff, NT, Australia	RrC I	HAP 4		LI	1
ABTC109700	Adelaide River Inn, NT, Australia	RrC I	HAP 4		LI	1
ABTC110180	Waingapu, Sumba, Sumba, Indonesia	RrC IV	HAP 66		LIV	1
ABTC110237	Ubud, Bali, Indonesia	RrC II	HAP 47	OL865507	NA	1
ABTC110250	Cianjur, Java, Indonesia	RrC II	HAP 51	OL865511	LIV	1
ABTC110260	Ah Chong Island, WA, Australia	RrC I	HAP 10	OL865456	NA	1
ABTC110261	Ah Chong Island, WA, Australia	RrC I	HAP 10		NA	1
ABTC110265	Elat, Kei Besar, Indonesia	RrC II	HAP 46		LIV	1
ABTC110266	Elat, Kei Besar, Indonesia	RrC IV	HAP 1		LIV	1
ABTC110268	Lat Dalam, Yamdena, Indonesia	RrC II	HAP 50	OL865510	NA	1
ABTC115071	Comilla District, Bangladesh	RrC II	HAP 81	OL865530	LII	1
ABTC115082	Chittagong, Bangladesh	RrC II	HAP 38	OL865501	LII	1
ABTC115088	Sowara Village Comilla District, Bangladesh	RrC II	HAP 41		LII	1

ABTC115149	Myanmar	RrC II	HAP 37	OL865500	LII	1
ABTC115237	Hatsua Village, Pak Ou District, Luang Prabang Province, Laos	RrC II	HAP 62	OL865518	NA	1
ABTC115248	West Bago Division, Myanmar	RrC II	HAP 54		LII	1
ABTC115249	West Bago Division, Myanmar	RrC II	HAP 71		LII	1
ABTC115250	North Shan State, Shan State, Myanmar	RrC II	HAP 40	OL865503	LII	1
ABTC115251	South Shan State, Shan State, Myanmar	RrC II	HAP 30	OL865497	LII	1
ABTC115271	Hatsua Village, Pak Ou District, Luang Prabang Province, Laos	RrC II	HAP 25	OL865494	NA	1
ABTC115324	Houay Khot Village, Laos	RrC II	HAP 22	OL865492	NA	1
ABTC115413	Pappinbarra Valley, NSW, Australia	RrC II	HAP 42	OL865505	LI	1
ABTC115442	Turretfield Research Station Rosedale, SA, Australia	RrC I	HAP 1		NA	1
ABTC115449	Turretfield Research Station Rosedale, SA, Australia	RrC II	HAP 48		LI	1
ABTC115450	Turretfield Research Station Rosedale, SA, Australia	RrC II	HAP 48		LI	1
ABTC117079	Upper Pappinbarra via Beechwood NSW, NSW, Australia	RrC II	HAP 42		LI	1
ABTC117080	Upper Pappinbarra via Beechwood NSW, NSW, Australia	RrC II	HAP 42		LI	1
ABTC117112	Oman	RrC I	HAP 34	OL865472	LI	1
ABTC117140	Mizoram, India	RrC II	HAP 39	OL865502	LII	1
ABTC117146	Mizoram, India	RrC II	HAP 69	OL865521	LII	1
ABTC117156	Mizoram, India	RrC II	HAP 68	OL865520	LII	1
ABTC117157	Mizoram, India	RrC II	HAP 68		LII	1
ABTC117158	Mizoram, India	RrC II	HAP 68		LII	1
ABTC117602	Gallo, La Galite, Tunisia	RrC I	HAP 14		LI	1
ABTC117605	Plane, Riou, France	RrC I	HAP 20	OL865463	NA	1
ABTC117608	Plane, Riou, France	RrC I	HAP 20		NA	1
ABTC117610	Zembretta, Zembra, Tunisia	RrC I	HAP 1		LI	1
ABTC117708	Elliston, SA, Australia	RrC I	HAP 48	OL865480	NA	1
ABTC117710	Elliston, SA, Australia	RrC I	HAP 48		NA	1
ABTC117723	Twin Swamps Bullsbrook, WA, Australia	RrC I	HAP 50	OL865481	NA	1
ABTC117724	Twin Swamps Bullsbrook, WA, Australia	RrC I	HAP 50		LI	1

ABTC117725	Twin Swamps Bullsbrook, WA, Australia	RrC I	HAP 50		NA	1
ABTC117727	Twin Swamps Bullsbrook, WA, Australia	RrC I	HAP 50		NA	1
ABTC117738	Charlton Gully, 24 k NW Port Lincoln, SA, Australia	RrC I	HAP 17	OL865462	LI	1
ABTC117747	Rosanna, Vic, Australia	RrC I	HAP 1		LI	1
ABTC117754	Okinawa Island, Japan	RrC II	HAP 10	OL865485	NA	1
ABTC117897	Gas Depot, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC117899	Triadic Crescent, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC118500	Ben Guerir, Morocco	RrC I	HAP 1		LI	1
ABTC118501	Guenfouda Oujda region, Morocco	RrC I	HAP 1		LI	1
ABTC118507	Mola village, Forecariah region, Guinea	RrC I	HAP 25	OL865467	NA	1
ABTC118508	Mola village, Forecariah region, Guinea	RrC I	HAP 6	OL865454	NA	1
ABTC118515	Cocos-Keeling Islands Direction Island, WA, Australia	RrC IV	HAP 4	OL865538	LIV	1
ABTC118517	Cocos-Keeling Islands Direction Island, WA, Australia	RrC I	HAP 1	OL865449	LIV	1
ABTC118520	Sihanouk Province, Cambodia	RrC IV	HAP 59	OL865574	LIV	1
ABTC118522	Sihanouk Province, Cambodia	RrC IV	HAP 23	OL865546	LIV	1
ABTC118534	Mondulkiri Province, Cambodia	RrC IV	HAP 20	OL865543	LIV	1
ABTC118549	Kalasin, Thailand	RrC II	HAP 65	OL865519	LIV	1
ABTC118551	Kalasin, Thailand	RrC IV	HAP 43	OL865560	LIV	1
ABTC118555	Luang Prabang, Laos	RrC II	HAP 54	OL865514	NA	1
ABTC118556	Luang Prabang, Laos	RrC II	HAP 24	OL865493	NA	1
ABTC118558	Luang Prabang, Laos	RrC II	HAP 76	OL865525	NA	1
ABTC118559	Luang Prabang, Laos	RrC II	HAP 19	OL865490	NA	1
ABTC118560	Luang Prabang, Laos	RrC II	HAP 27		NA	1
ABTC118562	Champasak, Laos	RrC IV	HAP 50	OL865565	LIV	1
ABTC118570	Champasak, Laos	RrC IV	HAP 52	OL865567	LIV	1
ABTC118575	Luang Prabang, Laos	RrC II	HAP 27		NA	1
ABTC118583	Nakhon Pathom, Thailand	RrC IV	HAP 33	OL865552	NA	1
ABTC118584	Kanchanaburi, Thailand	RrC II	HAP 80	OL865529	NA	1
ABTC118585	Kanchanaburi, Thailand	RrC II	HAP 34	OL865499	NA	1

ABTC118588	Kanchanaburi, Thailand	RrC II	HAP 57	OL865517	NA	1
ABTC118590	Kanchanaburi, Thailand	RrC II	HAP 55	OL865515	NA	1
ABTC118600	Phrae, Thailand	RrC II	HAP 16	OL865488	NA	1
ABTC118604	Kalasin, Thailand	RrC II	HAP 65		NA	1
ABTC118607	Loei, Thailand	RrC II	HAP 17		LIV	1
ABTC118608	Phrae, Thailand	RrC IV	HAP 49	OL865564	NA	1
ABTC118613	Loei, Thailand	RrC II	HAP 27		NA	1
ABTC118615	Phrae, Thailand	RrC II	HAP 52	OL865512	NA	1
ABTC118616	Phrae, Thailand	RrC II	HAP 63		NA	1
ABTC118617	Loei, Thailand	RrC II	HAP 18	OL865489	NA	1
ABTC118619	Phrae, Thailand	RrC II	HAP 54		NA	1
ABTC118636	Nan, Thailand	RrC II	HAP 54		NA	1
ABTC118637	Nan, Thailand	RrC II	HAP 56	OL865516	NA	1
ABTC118638	Nan, Thailand	RrC II	HAP 20	OL865491	NA	1
ABTC118640	Nan, Thailand	RrC II	HAP 53	OL865513	LII	1
ABTC118643	Bangkok, Thailand	RrC IV	HAP 30	OL865551	LIV	1
ABTC118648	Buriram, Thailand	RrC IV	HAP 63	OL865577	LIV	1
ABTC118652	Buriram, Thailand	RrC IV	HAP 29		LIV	1
ABTC118658	Kalasin, Thailand	RrC IV	HAP 43		LIV	1
ABTC118667	Mudumalai 28k NW Oottacamund, Tamil Nadu, India	RrC I	HAP 53	OL865483	LI	1
ABTC118670	Kotagiri, 23k E Oottacamund, Tamil Nadu, India	RrC I	HAP 52	OL865482	NA	1
ABTC118671	Mudumalai 28k NW Oottacamund, Tamil Nadu, India	RrC I	HAP 33	OL865471	NA	1
ABTC118672	Mudumalai 28k NW Oottacamund, Tamil Nadu, India	RrC I	HAP 38	OL865476	NA	1
ABTC118674	Avallanchi 18k SSW Oottacamund, Tamil Nadu, India	RrC I	HAP 43		LI	1
ABTC118675	Avallanchi 18k SSW Oottacamund, Tamil Nadu, India	RrC I	HAP 43		LI	1
ABTC118677	Attur, Ammumplayan, 47k E Salem, Tamil Nadu, India	RrC I	HAP 42	OL865479	LI	1
ABTC118679	Attur, Ammumplayan, 47k E Salem, Tamil Nadu, India	RrC I	HAP 42		LI	1
ABTC118683	Araluen, NSW, Australia	RrC I	HAP 16		NA	1

ABTC118684	Araluen, NSW, Australia	RrC I	HAP 16	OL865461	LI	1
ABTC118688	Adelaide, South Australia, Australia	RrC II	NA		LI	1
ABTC118886	Academy Bay Isla Santa Cruz, Galapagos, Ecuador	RrC I	HAP 7		NA	1
ABTC118887	Academy Bay Isla Santa Cruz, Galapagos, Ecuador	RrC I	HAP 7	OL865455	NA	1
ABTC118904	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 72	OL865522	NA	1
ABTC118907	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 74	OL865524	NA	1
ABTC118908	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 72		NA	1
ABTC118909	Mangrove Island at Bandar-e Hamiran Hava Protected Area, Hormozgan Prov., Iran	RrC I	HAP 9		LI	1
ABTC118912	Ranomafanakely, Fianarantsoa Prov., Madagascar	RrC I	HAP 27		LI	1
ABTC118913	Ranomafanakely, Fianarantsoa Prov., Madagascar	RrC I	HAP 27		LI	1
ABTC118915	Mahasoa forest camp near Amboditsakuana, Toamasina Province, Madagascar	RrC I	HAP 32	OL865470	LI	1
ABTC118925	Hayward, CA, USA	RrC II	HAP 49	OL865509	NA	1
ABTC118964	Deep Bay, Tas, Australia	RrC I	HAP 1		LI	1
ABTC118976	43 Alderley Square Wilson, WA, Australia	RrC I	HAP 15		NA	1
ABTC118984	Key Largo, FL, USA	RrC I	HAP 1		NA	1
ABTC118985	Key Largo, FL, USA	RrC I	HAP 1		NA	1
ABTC118987	Little Rock, AR, USA	RrC I	HAP 1		NA	1
ABTC119012	International Rice Research Institute, Los Banos, Luzon, Philippines	RrC IV	HAP 7	OL865540	LIV	1
ABTC119032	Masiit Calauan, Laguna, Luzon Island, Luzon, Philippines	RrC IV	HAP 7		LIV	1
ABTC119044	Maahas Los Banos, Laguna, Luzon Island, Luzon, Philippines	RrC IV	HAP 1		LIV	1
ABTC119082	Central San Jose Mindoro Occidental Mindoro Island, Mindoro, Philippines	RrC IV	HAP 55	OL865570	LIV	1
ABTC119418	35 Fleming Road Chapel Hill, Qld, Australia	RrC II	HAP 46		LI	1
ABTC121666	Orange Grove, Singapore	RrC IV	HAP 1		LIV	1
ABTC121668	Seletar Camp, Singapore	RrC IV	HAP 1		LIV	1
ABTC121671	Jalan Rajah, Singapore	RrC IV	HAP 62	OL865576	LIV	1

ABTC121847	Sydney Olympic Park, NSW, Australia	RrC I	HAP 4		NA	1
ABTC121848	Sydney Olympic Park, NSW, Australia	RrC I	HAP 1		NA	1
ABTC121849	Sydney Olympic Park, NSW, Australia	RrC II	HAP 42		LI	1
ABTC121850	Sydney Olympic Park, NSW, Australia	RrC I	HAP 1		NA	1
ABTC121854	Sydney Olympic Park, NSW, Australia	RrC I	HAP 4	OL865452	NA	1
ABTC121855	Sydney Olympic Park, NSW, Australia	RrC I	HAP 4		LI	1
ABTC121857	Sydney Olympic Park, NSW, Australia	RrC I	HAP 1		LI	1
ABTC121859	Sydney Olympic Park, NSW, Australia	RrC II	HAP 42		LI	1
ABTC123550	E Asquelon near Kever Silver, Israel	RrC I	HAP 26	OL865468	NA	1
ABTC123551	E Asquelon near Kever Silver, Israel	RrC I	HAP 26		NA	1
ABTC123553	E Asquelon near Kever Silver, Israel	RrC I	HAP 21	OL865464	NA	1
ABTC123554	E Asquelon near Kever Silver, Israel	RrC I	HAP 21		NA	1
ABTC123578	Penguin Island, WA, Australia	RrC I	HAP 15		LI	1
ABTC123580	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 40	OL865477	LI	1
ABTC123581	Apache Supply Base, Dampier, WA, Australia	RrC I	HAP 1		NA	1
ABTC123583	Cocos-Keeling Islands, West Island, WA, Australia	RrC IV	HAP 6	OL865539	LI	1
ABTC123584	Cocos-Keeling Islands, Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC123585	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC123586	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC123587	Dampier, WA, Australia	RrC I	HAP 1		NA	1
ABTC123593	Cygnat Bay, WA, Australia	RrC I	HAP 14		LI	1
ABTC123611	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 35	OL865473	NA	1
ABTC123612	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC124416	Cat Tien, Vietnam	RrC IV	HAP 48	OL865563	LIV	1
ABTC124417	Xuyen Mok, Vietnam	RrC IV	HAP 55		NA	1
ABTC124418	Pleiku, Vietnam	RrC IV	HAP 50		NA	1
ABTC124422	Pleiku, Vietnam	RrC IV	HAP 50		LIV	1
ABTC124423	Pleiku, Vietnam	RrC IV	HAP 56	OL865571	LIV	1

ABTC124424	Pleiku, Vietnam	RrC IV	HAP 54	OL865569	NA	1
ABTC124425	LoGoXaMat, Vietnam	RrC IV	HAP 58	OL865573	NA	1
ABTC124426	LoGoXaMat, Vietnam	RrC IV	HAP 68	OL865581	NA	1
ABTC124427	Vinh Long, Vietnam	RrC IV	HAP 21	OL865544	NA	1
ABTC124428	Vinh Long, Vietnam	RrC IV	HAP 13		LIV	1
ABTC124430	LoGoXaMat, Vietnam	RrC IV	HAP 22	OL865545	LIV	1
ABTC124431	LoGoXaMat, Vietnam	RrC IV	HAP 57	OL865572	LIV	1
ABTC125742	Cinarli Koyu-Gonen-Balikesir, Turkey	RrC I	HAP 23	OL865466	NA	1
ABTC125743	Karakamis-Nizip-Gaziantep, Turkey	RrC I	HAP 12	OL865457	LI	1
ABTC125749	Dalaman-Mugla, Turkey	RrC I	HAP 1		LI	1
ABTC125750	Persembe-Ordu, Turkey	RrC I	HAP 3	OL865451	LI	1
ABTC125753	Dupnisa Magarasi-Demirkoy, Turkey	RrC I	HAP 1		LI	1
ABTC126402	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126404	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126406	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126409	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126410	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126411	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126412	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126413	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126414	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126415	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126416	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126417	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126418	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126419	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126429	Christmas Island, WA, Australia	RrC II	HAP 48	OL865508	NA	1
ABTC126436	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1

ABTC126438	Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC126732	Xinjie Baoshan, Yunnan, China	RrC II	HAP 83		NA	1
ABTC126734	Daiguan Baoshan, Yunnan, China	RrC II	HAP 83	OL865532	NA	1
ABTC126735	Xinjie Baoshan, Yunnan, China	RrC II	HAP 87	OL865536	NA	1
ABTC126736	Xinjie Baoshan, Yunnan, China	RrC II	HAP 87		NA	1
ABTC126737	Xinjie Baoshan, Yunnan, China	RrC II	HAP 73		NA	1
ABTC126739	Xinjie Baoshan, Yunnan, China	RrC II	HAP 83		NA	1
ABTC126741	Xinjie Baoshan, Yunnan, China	RrC II	HAP 73	OL865523	NA	1
ABTC126743	Daiguan Baoshan, Yunnan, China	RrC II	HAP 83		NA	1
ABTC126745	Xinjie Baoshan, Yunnan, China	RrC II	HAP 73		NA	1
ABTC126750	Xinjie Baoshan, Yunnan, China	RrC II	HAP 73		NA	1
ABTC126752	Xinjie Baoshan, Yunnan, China	RrC II	HAP 84	OL865533	NA	1
ABTC126753	Daiguan Baoshan, Yunnan, China	RrC II	HAP 82	OL865531	NA	1
ABTC126754	Xinjie Baoshan, Yunnan, China	RrC II	HAP 85	OL865534	NA	1
ABTC126770	Xinjie Baoshan, Yunnan, China	RrC II	HAP 73		NA	1
ABTC126771	Xinjie Baoshan, Yunnan, China	RrC II	HAP 82		NA	1
ABTC126774	Xinjie Baoshan, Yunnan, China	RrC II	HAP 83		NA	1
ABTC126777	Xinjie Baoshan, Yunnan, China	RrC II	HAP 86	OL865535	NA	1
ABTC127323	Pothwar region Kharimort, Punjab, Pakistan	RrC III	NA		LI	1
ABTC127512	Pothwar region Ahmedabad, Punjab, Pakistan	RrC III	NA		LI	1
ABTC127858	Cygnat Bay, 11k S Cape Leveque, WA, Australia	RrC I	HAP 14		NA	1
ABTC127859	Cygnat Bay, 11k S Cape Leveque, WA, Australia	RrC I	HAP 1		NA	1
ABTC127860	Cygnat Bay, 11k S Cape Leveque, WA, Australia	RrC I	HAP 1		NA	1
ABTC127861	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 15	OL865460	NA	1
ABTC127862	Cocos-Keeling Islands West Island, WA, Australia	RrC IV	HAP 6		LI	1
ABTC127865	Penguin Island 5k SW Rockingham, WA, Australia	RrC I	HAP 15		NA	1
ABTC127866	Penguin Island 5k SW Rockingham, WA, Australia	RrC I	HAP 15		NA	1

ABTC127868	Penguin Island 5k SW Rockingham, WA, Australia	RrC I	HAP 15		NA	1
ABTC127869	Penguin Island 5k SW Rockingham, WA, Australia	RrC I	HAP 15		NA	1
ABTC127870	Penguin Island 5k SW Rockingham, WA, Australia	RrC I	HAP 15		NA	1
ABTC130601	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130602	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130603	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130604	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130605	Cocos-Keeling Islands, West Island, WA, Australia	RrC I	HAP 1		LI	1
ABTC130606	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130607	Cocos-Keeling Islands, West Island, WA, Australia	RrC I	HAP 1		LI	1
ABTC130608	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130609	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130610	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130611	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130612	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130613	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130614	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130615	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130616	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130617	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130618	Cocos-Keeling Islands, West Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130619	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 40		NA	1
ABTC130620	Cocos-Keeling Islands West Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130621	Cocos-Keeling Islands, West Island, WA, Australia	RrC IV	HAP 6		LI	1
ABTC130622	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130623	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130624	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1

ABTC130625	Cocos-Keeling Islands South Island Tanjong Kunci, WA, Australia	RrC I	HAP 1		LI	1
ABTC130626	Cocos-Keeling Islands South Island Pulu Cheplok, WA, Australia	RrC I	HAP 1		LI	1
ABTC130627	Cocos-Keeling Islands South Island Pulu Cheplok, WA, Australia	RrC I	HAP 1		NA	1
ABTC130628	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130629	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130630	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130631	Cocos-Keeling Islands Home Island, WA, Australia	RrC I	HAP 1		NA	1
ABTC130632	Cocos-Keeling Islands South Island Tanjong Kunci, WA, Australia	RrC I	HAP 1		NA	1
ABTC130633	Cocos-Keeling Islands South Island Tanjong Kunci, WA, Australia	RrC I	HAP 1		NA	1
ABTC136421	Sombani Hut, Mulanje Mts FR, Malawi	RrC I	HAP 48		LI	1
ABTC136422	Zomba, Malawi	RrC I	HAP 27		LI	1
ABTC136428	Camp Mt Jesi, Mozambique	RrC I	HAP 29		LI	1
ABTC136430	Camp Mt Jesi, Mozambique	RrC I	HAP 29		LI	1
ABTC136431	Camp Mt Jesi, Mozambique	RrC I	HAP 29		LI	1
ABTC136435	Camp Mt Jesi, Mozambique	RrC I	HAP 29		LI	1
ABTC136436	Camp Mt Jesi, Mozambique	RrC I	HAP 29	OL865469	LI	1
ABTC136440	Posto Inarri Gurue, Mozambique	RrC I	HAP 27		LI	1
ABTC136441	Military Base Quelimane, Mozambique	RrC I	HAP 48		LI	1
ABTC136442	Chikuni Bangweulu Game Reserve, Zambia	RrC I	HAP 27		LI	1
ABTC136443	Chikuni Bangweulu Game Reserve, Zambia	RrC I	HAP 27		LI	1
ABTC136444	Chikuni Bangweulu Game Reserve, Zambia	RrC II	HAP 27		LI	1
ABTC136445	Lake Tanganyika Lodge, Zambia	RrC I	HAP 27		LI	1
ABTC136448	Kapuma Falls, Zambia	RrC I	HAP 27		LI	1
ABTC136450	Mumbuluma Falls, Zambia	RrC I	HAP 27		LI	1
ABTC136454	Handei Forest Usambara Mts, Tanzania	RrC I	HAP 48		LI	1

ABTC136456	Scout post, Kyelele (Rumanyika Game Reserve borders), Tanzania	RrC I	HAP 37	OL865475	LI	1
ABTC136458	Kacholola, Zambia	RrC I	HAP 27		LI	1
ABTC136470	Grants Well # 3, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136471	Grants Well # 1, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136472	Grants Well # 2, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136473	South Point # 1, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136474	South Point - old Space Station Area # 1, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136475	Margaret Knoll, Christmas Island, WA, Australia	RrC I	HAP 41	OL865478	LI	1
ABTC136476	Winifred Beach Road, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136477	Pink House, Christmas Island, WA, Australia	RrC I	HAP 41		LIV_Christmas	1
ABTC136478	No. 1 Dales Carpark, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136479	G. Thompson's house, Drumsite Area, Christmas Island, WA, Australia	RrC IV	HAP 66		NA	1
ABTC136480	Hanitch Hill, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136481	Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136482	Dead from SIEV that washed up in Flying Fish Cove, Christmas Island, WA, Australia	RrC II	HAP 77	OL865526	NA	1
ABTC136483	Pan Christmas Island Shed, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136484	Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136485	Christmas Island, WA, Australia	RrC IV	HAP 66	OL865580	NA	1
ABTC136486	Lily Beach 1, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136487	Lily Beach 2, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136488	Lily Beach 3, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136489	Lily Beach 4, Christmas Island, WA, Australia	RrC IV	HAP 1	OL865537	LIV_Christmas	1
ABTC136490	Workshop, Christmas Island, WA, Australia	RrC IV	HAP 1		LIV_Christmas	1

ABTC136491	Workshop, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136492	Workshop Central, Christmas Island, WA, Australia	RrC IV	HAP 1		LIV_Christmas	1
ABTC136493	LB4 Area, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136494	Christmas Island Parks Office, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136495	Christmas Island Parks Office, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136496	Trap 13 Territory Park, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136497	Trap 8 Territory Park, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136498	Drumsite Area, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136499	Drumsite Area, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136500	Drumsite Area, Christmas Island, WA, Australia	RrC IV	HAP 66		LIV_Christmas	1
ABTC136912	Waarle, The Netherlands	RrC I	HAP 1		NA	1
ABTC136916	Alphen, The Netherlands	RrC I	HAP 1		NA	1
ABTC136925	Swartbroek, The Netherlands	RrC I	HAP 1		NA	1
ABTC136926	Swartbroek, The Netherlands	RrC I	HAP 1		NA	1
ABTC136963	Emst, The Netherlands	RrC I	HAP 1		NA	1
ABTC136965	Emst, The Netherlands	RrC I	HAP 1		NA	1
ABTC136982	Emst, The Netherlands	RrC I	HAP 10		NA	1
ABTC137041	Westdorpe, The Netherlands	RrC I	HAP 13	OL865458	NA	1
ABTC137059	Zuiddorpe (gemeente Terneuzen), The Netherlands	RrC I	HAP 1		NA	1
ABTC137789	Motel, West Island Cocos (Keeling) Islands, WA, Australia	RrC IV	HAP 6		LI	1
ABTC27386	Bordertown, SA, Australia	RrC I	HAP 14	OL865459	NA	1
ABTC27466	Milbrook Reservoir, SA, Australia	RrC II	HAP 48		LI	1
ABTC27556	Port Lincoln, SA, Australia	RrC I	HAP 1		NA	1
ABTC30629	Mt Lambell, NT, Australia	RrC I	HAP 29		LI	1
ABTC33255	Mount Compass, South Australia, Australia	RrC II	NA		LI	1
ABTC47981	Yogyakarta, Java, Indonesia	RrC II	HAP 78	OL865527	NA	1

ABTC47982	Yogyakarta, Java, Indonesia	RrC II	HAP 79	OL865528	NA	1
ABTC47987	Yogyakarta, Java, Indonesia	RrC II	HAP 77		LIV	1
ABTC47988	Yogyakarta, Java, Indonesia	RrC IV	HAP 66		LIV	1
ABTC47992	Jakarta, Java, Indonesia	RrC IV	HAP 2		NA	1
ABTC47997	Jakarta, Java, Indonesia	RrC IV	HAP 2		NA	1
ABTC5333	Canunda, SA, Australia	RrC I	HAP 1		LI	1
ABTC64906	Kuala Lumpur, Malaysia	RrC IV	HAP 8		LIV	1
ABTC64908	Kuala Lumpur, Malaysia	RrC IV	HAP 9	OL865541	LIV	1
ABTC70383	8.1k SSW Wilmington, SA, Australia	RrC I	HAP 15		NA	1
ABTC74288	2.9k SE Williamstown, SA, Australia	RrC II	HAP 48		LI	1
ABTC8489	Hong Kong, China	RrC II	HAP 6	OL865484	NA	1
ABTC8490	Hong Kong, China	RrC II	HAP 6		NA	1
ABTC8496	Trincomalee, Sri Lanka	RrC I	HAP 36		LI	1
ABTC8514	Anami Island, Japan	RrC II	HAP 11	OL865486	NA	1
ABTC8529	Sri Lanka, Sri Lanka	RrC IV	HAP 6		LI	1
ABTC8536	Sri Lanka, Sri Lanka	RrC IV	HAP 6		LI	1
ABTC8540	Sri Lanka, Sri Lanka	RrC IV	HAP 6		LI	1
ABTC8562	Anami Island, Japan	RrC II	HAP 11		NA	1
ABTC8576	Hong Kong, China	RrC II	HAP 6		NA	1
ABTC85868	Port Moorowie, Point Davenport Conservation Park, SA, Australia	RrC I	HAP 1+		LI	1
ABTC8589	Trincomalee, Sri Lanka	RrC I	HAP 36	OL865474	LI	1
ABTC93404	Purnong, South Australia, Australia	RrC I	NA		LI	1
ABTC93673	3.2k ESE Mount Misery, SA, Australia	RrC I	HAP 48		NA	1
ABTC93681	4.2k ENE Mount Misery, SA, Australia	RrC I	HAP 48		NA	1
ABTC96618	3.6k NNW Mintaro, SA, Australia	RrC I	HAP 1		LI	1
ABTC96892	1.7k SSW Swan Reach, SA, Australia	RrC II	HAP 48		LI	1
ABTC96912	2.2k SSE Moorundie, SA, Australia	RrC II	HAP 48		LI	1
B1-1	Shanghai, Shanghai Municipality, China	RrC II	HAP 8		NA	13
B1-6	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	13
B1-7	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	13

B3-1	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	13
B4-1	Shanghai, Shanghai Municipality, China	RrC II	HAP 1		NA	13
B4-4	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	13
DQ439816	Giyani (Nkombo-B), Limpopo Province, South Africa	RrC II	HAP 67	DQ439816	NA	11
DQ439817	Giyani (Nkombo-B), Limpopo Province, South Africa	RrC II	HAP 67	DQ439817	NA	11
DQ439818	Giyani (Nkombo-B), Limpopo Province, South Africa	RrC II	HAP 67	DQ439818	NA	11
DQ439846	Paulpietersburg Ophuzane, Kwa-ZuluNatal, South Africa	RrC II	HAP 67	DQ439846	NA	11
DQ439847	Paulpietersburg Ophuzane, Kwa-ZuluNatal, South Africa	RrC II	HAP 67	DQ439847	NA	11
FR775856	Ho Chi Minh City, Vietnam	RrC IV	HAP 40	FR775856	NA	12
FR775862	Vinh Long, Vietnam	RrC IV	HAP 14	FR775862	NA	12
FR775863	Vinh Long, Vietnam	RrC IV	HAP 14	FR775863	NA	12
GQ891574	Arazat, Oman	RrC I	HAP 44	GQ891574	NA	4
GQ891577	Sahanout, Oman	RrC I	HAP 55	GQ891577	NA	4
GQ891578	Sahanout, Oman	RrC I	HAP 54	GQ891578	NA	4
GQ891579	Sahanout, Oman	RrC I	HAP 54	GQ891579	NA	4
GQ891580	Sahanout, Oman	RrC I	HAP 39	GQ891580	NA	4
GQ891581	Yemen	RrC I	HAP 46	GQ891581	NA	4
GQ891582	Yemen	RrC I	HAP 45	GQ891582	NA	4
GQ891586	Zambezi, Mozambique	RrC I	HAP 48	GQ891586	NA	4
GQ891588	Zambezi, Mozambique	RrC I	HAP 27	GQ891588	NA	4
GQ891591	Moroni, GrandeComore, Comoros	RrC I	HAP 48	GQ891591	NA	4
GQ891593	Moroni, GrandeComore, Comoros	RrC I	HAP 48	GQ891593	NA	4
GQ891594	Moroni, GrandeComore, Comoros	RrC I	HAP 49	GQ891594	NA	4
GQ891595	Moroni, GrandeComore, Comoros	RrC I	HAP 48	GQ891595	NA	4
GQ891601	BRI, Brickaville, Madagascar	RrC I	HAP 30	GQ891601	NA	4
GQ891605	AOM, Ambohimiariana, Madagascar	RrC I	HAP 31	GQ891605	NA	4
H5-4	Longyou, Zhejiang Province, China	RrC II	HAP 1		NA	13

H6-1	Longyou, Zhejiang Province, China	RrC II	HAP 71		NA	13
HM031687	Hainan, China	RrC II	HAP 1	HM031687	NA	13
HM031688	Hainan, China	RrC II	HAP 9	HM031688	NA	13
HM031696	Hainan, China	RrC II	HAP 1	HM031696	NA	13
HM031697	Hainan, China	RrC II	HAP 5	HM031697	NA	13
HM031699	Hainan, China	RrC II	HAP 9	HM031699	NA	13
HM031702	Hainan, China	RrC II	HAP 4	HM031702	NA	13
HM031703	Hainan, China	RrC II	HAP 4	HM031703	NA	13
HM217363	VealRenh, Cambodia	RrC IV	HAP 24	HM217363	NA	5
HM217366	Oman	RrC I	HAP 24	HM217366	NA	5
HM217372	Ratchaburi, Thailand	RrC IV	HAP 32	HM217372	NA	5
HM217389	Prachin Buri, Thailand	RrC IV	HAP 34	HM217389	NA	5
HM217457	Phrae, Thailand	RrC II	HAP 35	HM217457	NA	5
HQ907884	Hai Phong, Vietnam	RrC II	HAP 1	HQ907884	NA	12
HQ907885	Hai Phong, Vietnam	RrC II	HAP 1	HQ907885	NA	12
HQ907886	Hai Phong, Vietnam	RrC II	HAP 1	HQ907886	NA	12
HS3741	Bali, Indonesia	RrC II	HAP 46		NA	1
HS4726	Okinawa Island, Yambaru, Ryukyu, Japan	RrC II	HAP 1		NA	1
JN675519	Yufuya, Guinea	RrC I	HAP 1	JN675519	NA	2
JN675520	Amphijoroa, Madagascar	RrC I	HAP 28	JN675520	NA	2
JN675524	Bandar-eHamiran, HormozganProvince, Iran	RrC I	HAP 9	JN675524	NA	2
JN675536	Sydney, NSW, Australia	RrC I	HAP 1	JN675536	NA	2
JN675541	Berkeley, CA, USA	RrC I	HAP 18	JN675541	NA	2
JN675545	PeasleeCreek, CA, USA	RrC I	HAP 7	JN675545	NA	2
JN675546	Sobral, Acre, Brazil	RrC I	HAP 15	JN675546	NA	2
JN675551	IlhadasFontes, Bahia, Brazil	RrC I	HAP 10	JN675551	NA	2
JN675552	Ankaratra, Madagascar	RrC I	HAP 27	JN675552	NA	2
JN675559	Chulaphorn Dam, Thailand	RrC II	HAP 70	JN675559	NA	2
JN675560	Chulaphorn Dam, Thailand	RrC II	HAP 21	JN675560	NA	2
JN675568	Laos_HouayKhot, Laos	RrC II	HAP 22	JN675568	NA	2
JN675569	Laos_HouayKhot, Laos	RrC II	HAP 23	JN675569	NA	2
JN675570	Laos_Houaphanh, Laos	RrC II	HAP 27	JN675570	NA	2
JN675573	Vinh Phuc Province, Vietnam	RrC II	HAP 12	JN675573	NA	2

JN675578	Hong Kong, China	RrC II	HAP 7	JN675578	NA	2
JN675585	Los Banos, Luzon, Philippines	RrC II	HAP 43	JN675585	NA	2
JN675586	Los Banos, Luzon, Philippines	RrC II	HAP 46	JN675586	NA	2
JN675588	Taichung City, Taiwan	RrC II	HAP 2	JN675588	NA	2
JN675591	Taitung, Lanyu, Orchid Island, Taiwan	RrC II	HAP 44	JN675591	NA	2
JN675604	Lamam, Sekon, Laos	RrC IV	HAP 44	JN675604	NA	2
JN675606	Kampong Cham Province, Speu, Cambodia	RrC IV	HAP 70	JN675606	NA	2
JN675607	PhnomPenh, Cambodian Agricultural Research and Development Institute, Cambodia	RrC IV	HAP 10	JN675607	NA	2
JN675608	PhnomPenh, Cambodian Agricultural Research and Development Institute, Cambodia	RrC IV	HAP 11	JN675608	NA	2
JN675609	PhnomPenh, Cambodian Agricultural Research and Development Institute, Cambodia	RrC IV	HAP 15	JN675609	NA	2
JN675610	Kampong Cham Province, Somrong Commune, Cambodia	RrC IV	HAP 67	JN675610	NA	2
JN675611	Tien Giang Province, Vietnam	RrC IV	HAP 12	JN675611	NA	2
JN675612	Tien Giang Province, Vietnam	RrC IV	HAP 66	JN675612	NA	2
JN675613	near Ho Chi Minh City, Vietnam	RrC IV	HAP 28	JN675613	NA	2
JN675616	Indonesia_Lombok, Indonesia	RrC IV	HAP 2	JN675616	NA	2
JN675617	Indonesia_Lombok, Indonesia	RrC IV	HAP 61	JN675617	NA	2
JN675620	Sulawesi, Manado, Indonesia	RrC IV	HAP 8	JN675620	NA	2
JN675622	Flores, Indonesia	RrC IV	HAP 1	JN675622	NA	2
JQ814212	Berkeley, CA, USA	RrC I	HAP 18	JQ814212	NA	14
JQ814213	MercedCounty Snelling, CA, USA	RrC I	HAP 7	JQ814213	NA	14
JQ823264	Tom Green County San Angelo, TX, USA	RrC I	HAP 1	JQ823264	NA	15
JQ823271	Tom Green County San Angelo, TX, USA	RrC I	HAP 1	JQ823271	NA	15
JQ823272	Alameda, CA, USA	RrC I	HAP 1	JQ823272	NA	15
JQ823320	Parker County Weatherford, TX, USA	RrC I	HAP 8	JQ823320	NA	15
JQ823334	Bijagual, Costa Rica	RrC I	HAP 11	JQ823334	NA	15

JQ823335	Bijagual, Costa Rica	RrC I	HAP 11	JQ823335	NA	15
JQ823336	Bijagual, Costa Rica	RrC I	HAP 11	JQ823336	NA	15
JQ823340	East Baton Rouge County, LA, USA	RrC I	HAP 1	JQ823340	NA	15
JQ823359	California, USA	RrC I	HAP 1	JQ823359	NA	15
JQ823373	East Baton Rouge County, LA, USA	RrC I	HAP 1	JQ823373	NA	15
JQ823380	Monroe County, Key Largo, FL, USA	RrC I	HAP 1	JQ823380	NA	15
JQ823394	AleutianIs. ShemyaIs., AK, USA	RrC I	HAP 1	JQ823394	NA	15
JQ823396	AleutianIs. ShemyaIs., AK, USA	RrC I	HAP 1	JQ823396	NA	15
JQ823400	AleutianIs. ShemyaIs., AK, USA	RrC I	HAP 1	JQ823400	NA	15
JQ823414	Pulaski County Little Rock, AR, USA	RrC I	HAP 1	JQ823414	NA	15
JQ823422	YerbaBuena, Tucuman, Argentina	RrC I	HAP 19	JQ823422	NA	15
JQ823428	Martin County, FL, USA	RrC I	HAP 51	JQ823428	NA	15
JQ823429	Martin County, FL, USA	RrC I	HAP 51	JQ823429	NA	15
JQ823430	Martin County, FL, USA	RrC I	HAP 51	JQ823430	NA	15
JQ823460	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 72	JQ823460	NA	15
JQ823461	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 71	JQ823461	NA	15
JQ823483	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 3	JQ823483	NA	15
JQ823485	Vinh Yen District, Tam Dao, Vinh Phu Province, Vietnam	RrC II	HAP 1	JQ823485	NA	15
JQ823490	Siquijor Island, Philippines	RrC II	HAP 45	JQ823490	NA	15
JQ823491	Siquijor Island, Philippines	RrC II	HAP 45	JQ823491	NA	15
JQ823495	Leyte, Leyte Island, Philippines	RrC IV	HAP 18	JQ823495	NA	15
JQ823496	Leyte, Leyte Island, Philippines	RrC IV	HAP 18	JQ823496	NA	15
JQ823498	Leyte, Leyte Island, Philippines	RrC IV	HAP 19	JQ823498	NA	15
JQ823504	Benguet, Luzon, Philippines	RrC IV	HAP 5	JQ823504	NA	15
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JQ823514	Negros Oriental, Negros Island, Philippines	RrC IV	HAP 3	JQ823514	NA	15

JQ823521	Benguet, Luzon, Philippines	RrC IV	HAP 47	JQ823521	NA	15
JQ823526	Benguet, Luzon, Philippines	RrC IV	HAP 47	JQ823526	NA	15
JX534038	Prachin Buri, Thailand	RrC IV	HAP 34	JX534038	NA	16
JX534040	Loei, Thailand	RrC IV	HAP 31	JX534040	NA	16
JX534068	Kanchanaburi, Thailand	RrC II	HAP 17	JX534068	NA	16
JX534069	Kanchanaburi, Thailand	RrC II	HAP 66	JX534069	NA	16
JX534072	Loei, Thailand	RrC II	HAP 60	JX534072	NA	16
JX534073	Phrae, Thailand	RrC II	HAP 54	JX534073	NA	16
JX534078	Loei, Thailand	RrC II	HAP 33	JX534078	NA	16
JX534079	Loei, Thailand	RrC II	HAP 27	JX534079	NA	16
JX534081	Phrae, Thailand	RrC II	HAP 20	JX534081	NA	16
JX534083	Phrae, Thailand	RrC II	HAP 63	JX534083	NA	16
JX534086	Phrae, Thailand	RrC II	HAP 17	JX534086	NA	16
JX534090	Loei, Thailand	RrC II	HAP 71	JX534090	NA	16
JX534091	Phrae, Thailand	RrC II	HAP 54	JX534091	NA	16
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JX534097	Phrae, Thailand	RrC II	HAP 53	JX534097	NA	16
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JX534099	Phrae Province, Thailand	RrC II	HAP 75	JX534099	NA	16
JX534100	Loei, Thailand	RrC II	HAP 32	JX534100	NA	16
JX534101	Loei, Thailand	RrC II	HAP 61	JX534101	NA	16
JX534102	Loei, Thailand	RrC II	HAP 54	JX534102	NA	16
JX534106	Phrae, Thailand	RrC II	HAP 27	JX534106	NA	16
JX534109	Phrae, Thailand	RrC II	HAP 58	JX534109	NA	16
JX534112	Loei, Thailand	RrC II	HAP 29	JX534112	NA	16
JX534113	Loei, Thailand	RrC II	HAP 63	JX534113	NA	16
JX534114	Loei, Thailand	RrC II	HAP 64	JX534114	NA	16
JX534117	Nan, Thailand	RrC II	HAP 71	JX534117	NA	16
LHSF6-5	Lahsa, Tibet Autonomous Region, China	RrC II	HAP 1		NA	6
LOYH3-5	Longyou, Zhejiang Province, China	RrC II	HAP 1		NA	6

NYCF1-4	Nyingchi, Tibet Autonomous Region, China	RrC II	HAP 1		NA	6
SH03	Islamabad Lohibher, Pakistan	RrC II	HAP 36		NA	1
SHHA1-8	Shanghai, Shanghai Municipality, China	RrC II	HAP 1		NA	6
SHHA3-3	Shanghai, Shanghai Municipality, China	RrC II	HAP 14		NA	6
SHHB1-1	Shanghai, Shanghai Municipality, China	RrC II	HAP 8		NA	6
SHHB1-6	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	6
SHHB1-7	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	6
SHHB3-1	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	6
SHHB4-1	Shanghai, Shanghai Municipality, China	RrC II	HAP 1		NA	6
SHHB4-4	Shanghai, Shanghai Municipality, China	RrC II	HAP 13		NA	6

Details about Runaway Cave

The well-known cave in the northeast of the island has an entrance located ~70 m west of Waterfall Road just north of the golf course. The formation is described as a fissure cave by Grimes (2001) formed by the mass movement of outer limestone blocks of the shore terrace. Runaway Cave (CI-2) is around 120 m in length and contains a brackish water pool that was used as a freshwater source in the 1950-1960s with several electrical components still in place. Small areas of flat sediment suitable for excavation were identified in the entrance chamber and a lower boulder floor above the water pool. Test pit 1 (TP1) was a 1 m² unit located ~7 m inside the cave entrance. The stratigraphy was simple with the upper 30 cm composed of a dark brown dusty and loose sediment containing many small pieces of limestone, crab chitin and fragments of *Rattus* spp. bone. Small fragments of green and brown bottle glass were found in the 0-10 cm level.

Supplementary Table 2. Radiocarbon dates on *Rattus* bone from Runaway cave.

Site	Unit & Depth	Material	Lab#	CRA	¹³ C	cal. BP (95.4%)
Runaway Cave	TP1:20-30 cm	<i>Rattus rattus</i>	Wk-29856	149.7 ± 0.5	-20.8 ± 0.2	modern
Runaway Cave	TP1:20-30 cm	<i>Rattus rattus</i>	Wk-29857	150.7 ± 0.6	-18.1 ± 0.2	modern
Runaway Cave	TP1:20-30 cm	<i>Rattus rattus</i>	Wk-29855	175 ± 28	-19.6 ± 0.2	0-290
Runaway Cave	TP1:70-80 cm	?	52127*	1777 ± 30	-24 ± 1	1564-1709

CRA's calibrated with Calib 7.10 using the IntCal13 dataset.

* Dated at Australian National University (Fallon et al., 2010).

Supplementary Table 3. Primers used in this study.

Primer	Fragment direction	Sequence	Length of fragment (bp)	Reference
LM1268	1-FM*	ATTAACCCTCACTAAAGCATGA AAAATCATCGTTGTAA	1269	This study
HM1269	1-RM*	AATACGACTCACTATAGTCTTC ATTTTTTGTGTTACAAGACCA		This study
A835	1-FA*	GAAACCCCTAATGACAAACA	116	Thomson et al., 2018
A836	1-RA*	AGAGAGCCAAAGTTTCATCA		Thomson et al., 2018
A1872	2-FA*	CCCCATCCAACATCTCATCA	154	This study
A1873	2-RA*	TACGTCTCGGCAGATGTG		This study
A1936	3-FA*	GGTTATGTACTCCCATGAGG	134	Thomson et al., 2018
A1937	3-RA*	GTTGCTTTGTCTACTGAGAA		Thomson et al., 2018
A1938	4-FA*	CTAACACGTTTTTTCGCATT	171	Thomson et al., 2018
A1939	4-RA*	CCTAGTAGGTCTTTAATTGT		Thomson et al., 2018

* A = primers used for ancient samples; M = primers used for modern samples.

Supplementary Table 4. Ancient DNA samples that yielded

Sample	Forward primer	Reverse primer	Length (bp)	mtClade	Site	Stratigraphy
ACAD17286	A1872	A1873	114	I	Runaway Cave	TP1 20–30cm
ACAD17286	A1936	A1937	94	I	Runaway Cave	TP1 20–30cm
ACAD17287	A1872	A1873	114	IV	Runaway Cave	TP1 20–30cm
ACAD17289	A1872	A1873	114	IV	Runaway Cave	TP1 20–30cm
ACAD17291	A1872	A1873	114	IV	Runaway Cave	TP1 20–30cm

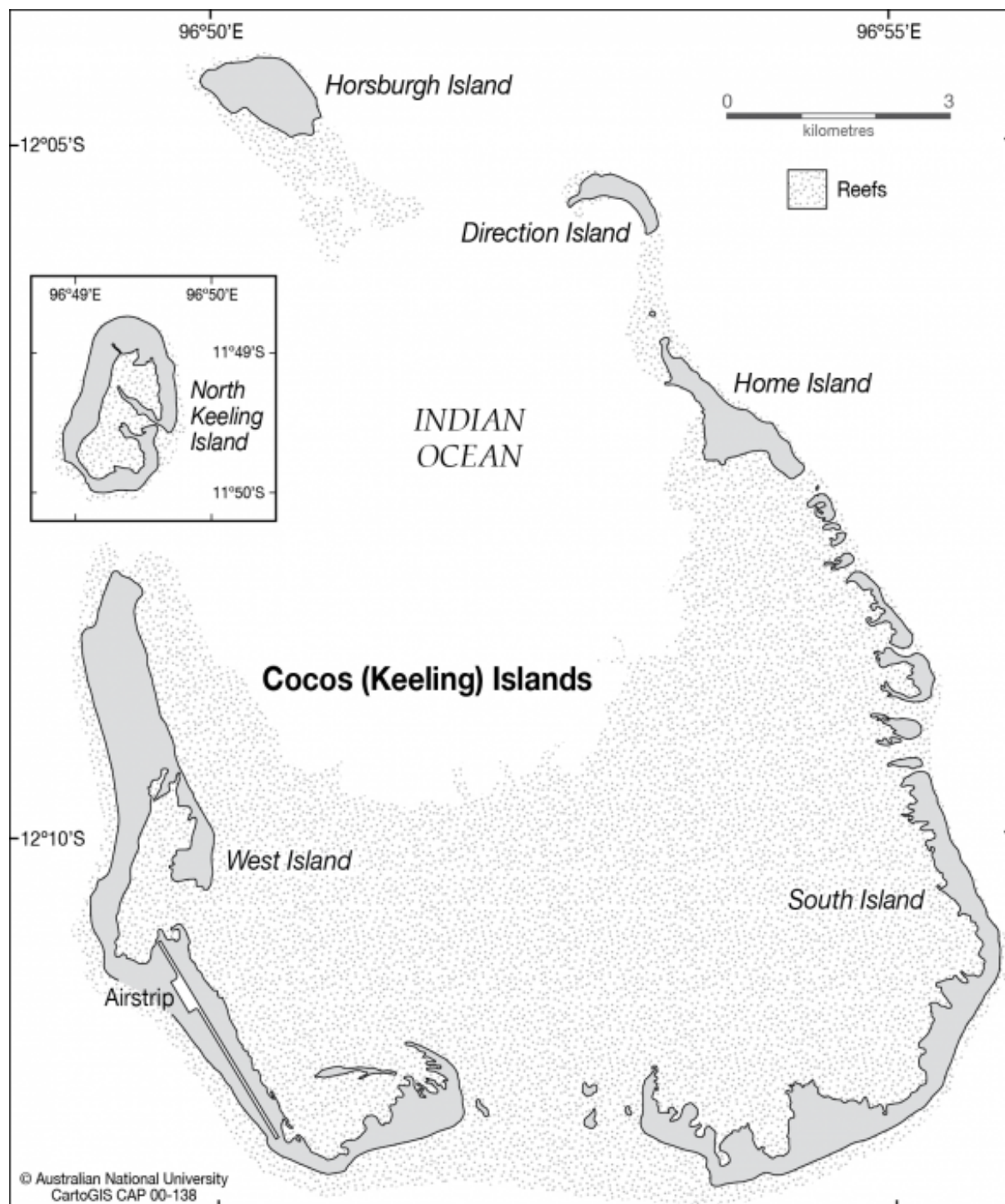
Supplementary Table 5. NewHybrid results used to examine the hybridisation history of RrC Lineage IV samples using the nuclear dataset.

Sample	Country	Location	mtClade	Most likely status	Posterior probability (replicate 1)	Posterior probability (replicate 2)	Posterior probability (replicate 3)	Standard deviation
118517	AUS	Cocos-Keeling Island (CCK)	I	F2	0.99987	0.99987	0.99987	0.000000
118515	AUS	Cocos-Keeling Island (CCK)	IV	F2	0.98397	0.98404	0.98399	0.000036
117897	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
117899	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99999	0.99999	0.99999	0.000000
136477	AUS	Christmas Island (CXR)	I	Pure pop 2	0.99996	0.99996	0.99996	0.000000
136498	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99997	0.99997	0.99997	0.000000
136499	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136500	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99997	0.99997	0.99997	0.000000

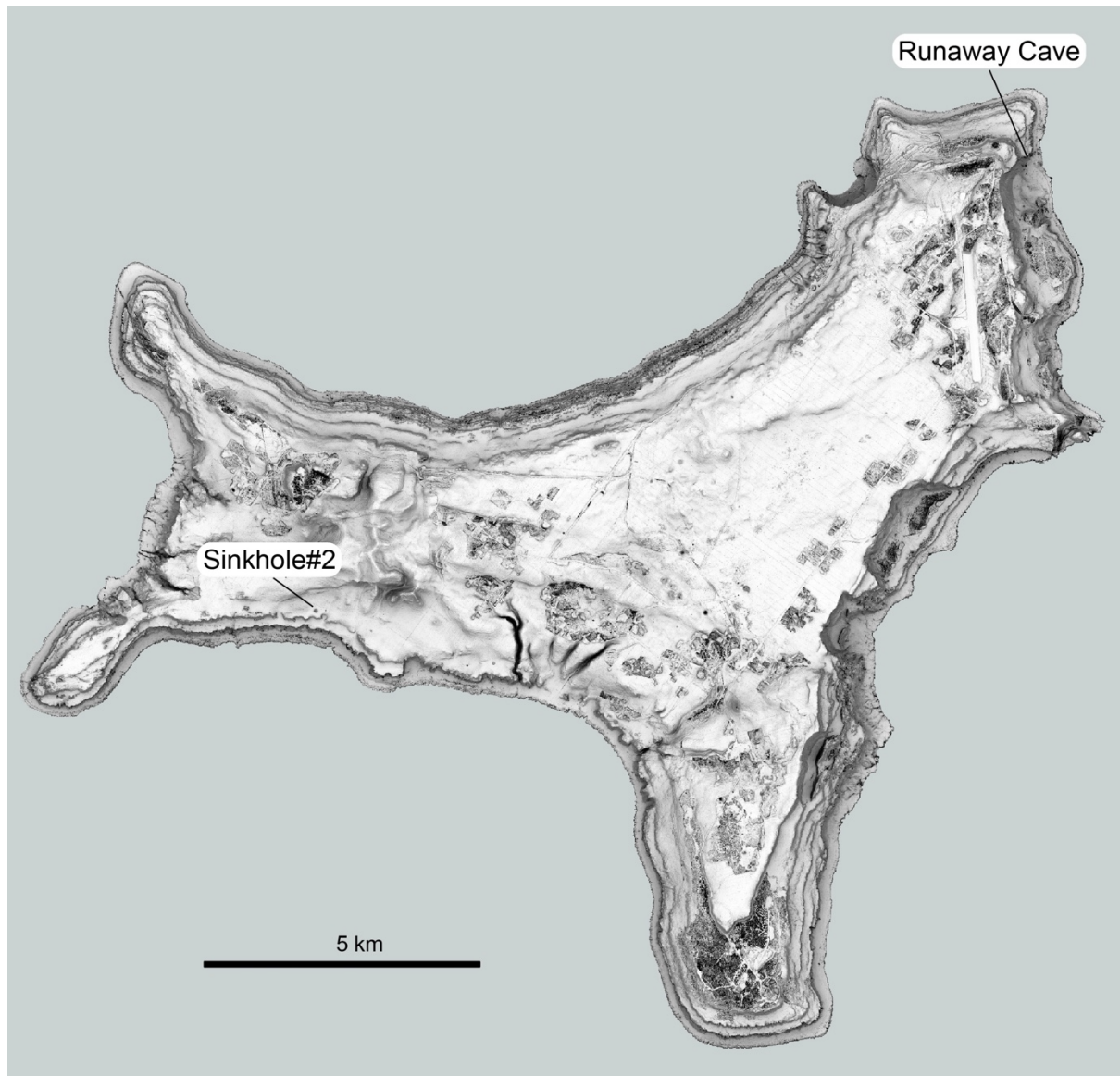
136481	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136470	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136471	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136472	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99982	0.99982	0.99981	0.000006
136480	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136493	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99983	0.99983	0.99983	0.000000
136486	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136487	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136488	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99999	0.99999	0.99999	0.000000
136489	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136494	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99987	0.99987	0.99987	0.000000
136495	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136483	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136473	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99356	0.99353	0.99352	0.000021
136474	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136496	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99999	0.99999	0.99999	0.000000
136497	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136478	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99932	0.99932	0.99932	0.000000
136476	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99989	0.99989	0.99989	0.000000
136490	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136491	AUS	Christmas Island (CXR)	IV	Pure pop 2	1	1	1	0.000000
136492	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99688	0.99692	0.99691	0.000021
136484	AUS	Christmas Island (CXR)	IV	Pure pop 2	0.99983	0.99983	0.99983	0.000000
110250	IDN	Java	II	F2	0.99997	0.99997	0.99997	0.000000
47987	IDN	Java	II	F2	0.9039	0.9039	0.90433	0.000248
47988	IDN	Java	IV	F2	0.99882	0.99883	0.99882	0.000006
110265	IDN	KeiBe	II	F2	0.99992	0.99992	0.99992	0.000000
110266	IDN	KeiBe	IV	F2	0.80489	0.80498	0.80625	0.000761
110180	IDN	Sumba	IV	F2	0.99644	0.99645	0.99648	0.000021
109063	KHM	KamCha	IV	Pure pop 1	1	1	1	0.000000
109046	KHM	Koh	IV	Pure pop 1	0.97934	0.97935	0.97938	0.000021

118534	KHM	Mondulkiri	IV	Pure pop 1	0.99979	0.99979	0.99979	0.000000
118522	KHM	Sihano	IV	Pure pop 1	0.99999	0.99999	0.99999	0.000000
118520	KHM	Sihanouk	IV	Pure pop 1	0.97873	0.97858	0.97867	0.000075
118562	LAO	Champasak	IV	Pure pop 1	0.99331	0.99329	0.9933	0.000010
118570	LAO	Champasak	IV	Pure pop 1	0.99859	0.99858	0.99859	0.000006
109003	LAO	Kha	IV	Pure pop 1	0.99989	0.99989	0.99989	0.000000
109004	LAO	Kha	IV	Pure pop 1	0.99571	0.99573	0.99572	0.000010
109006	LAO	Kha	IV	Pure pop 1	0.99774	0.99775	0.99774	0.000006
108864	LAO	Kha	IV	Pure pop 1	0.97426	0.97416	0.9742	0.000050
108875	LAO	Kha	IV	Backcross with pop 1	0.89417	0.89427	0.89463	0.000242
108881	LAO	Kha	IV	Backcross with pop 1?	0.68555	0.68553	0.68554	0.000010
108897	LAO	Kha	IV	Backcross with pop 1	0.95833	0.95833	0.95875	0.000242
108905	LAO	Kha	IV	Backcross with pop 1	0.94514	0.94512	0.94508	0.000031
109021	LAO	Sav	IV	Pure pop 1	0.99692	0.99688	0.99688	0.000023
109023	LAO	Sav	IV	Pure pop 1	0.99999	0.99999	0.99999	0.000000
109024	LAO	Sav	IV	Pure pop 1	1	1	1	0.000000
109025	LAO	Sav	IV	Pure pop 1	0.99987	0.99987	0.99987	0.000000
64906	MYS	Kuala	IV	F2	1	1	1	0.000000
64908	MYS	Kuala	IV	F2?	0.58065	0.58049	0.58121	0.000378
119044	PHL	Lagun	IV	F2	0.99903	0.99903	0.99904	0.000006
119012	PHL	Luz	IV	F2	0.99615	0.99616	0.99618	0.000015
119032	PHL	Luz	IV	F2	0.99964	0.99963	0.99964	0.000006
119082	PHL	Mind	IV	F2?	0.58221	0.58188	0.58254	0.000330
121671	SGP	JalanRajah	IV	F2	0.99997	0.99997	0.99997	0.000000
121666	SGP	Orange	IV	F2	0.99992	0.99992	0.99992	0.000000
121668	SGP	SeletarC	IV	F2	0.99778	0.9978	0.9978	0.000012
118643	THA	Bangkok	IV	Backcross with pop 1	0.91624	0.91612	0.91683	0.000380
118648	THA	Buriram	IV	Backcross with pop 1	0.97792	0.97798	0.97782	0.000081

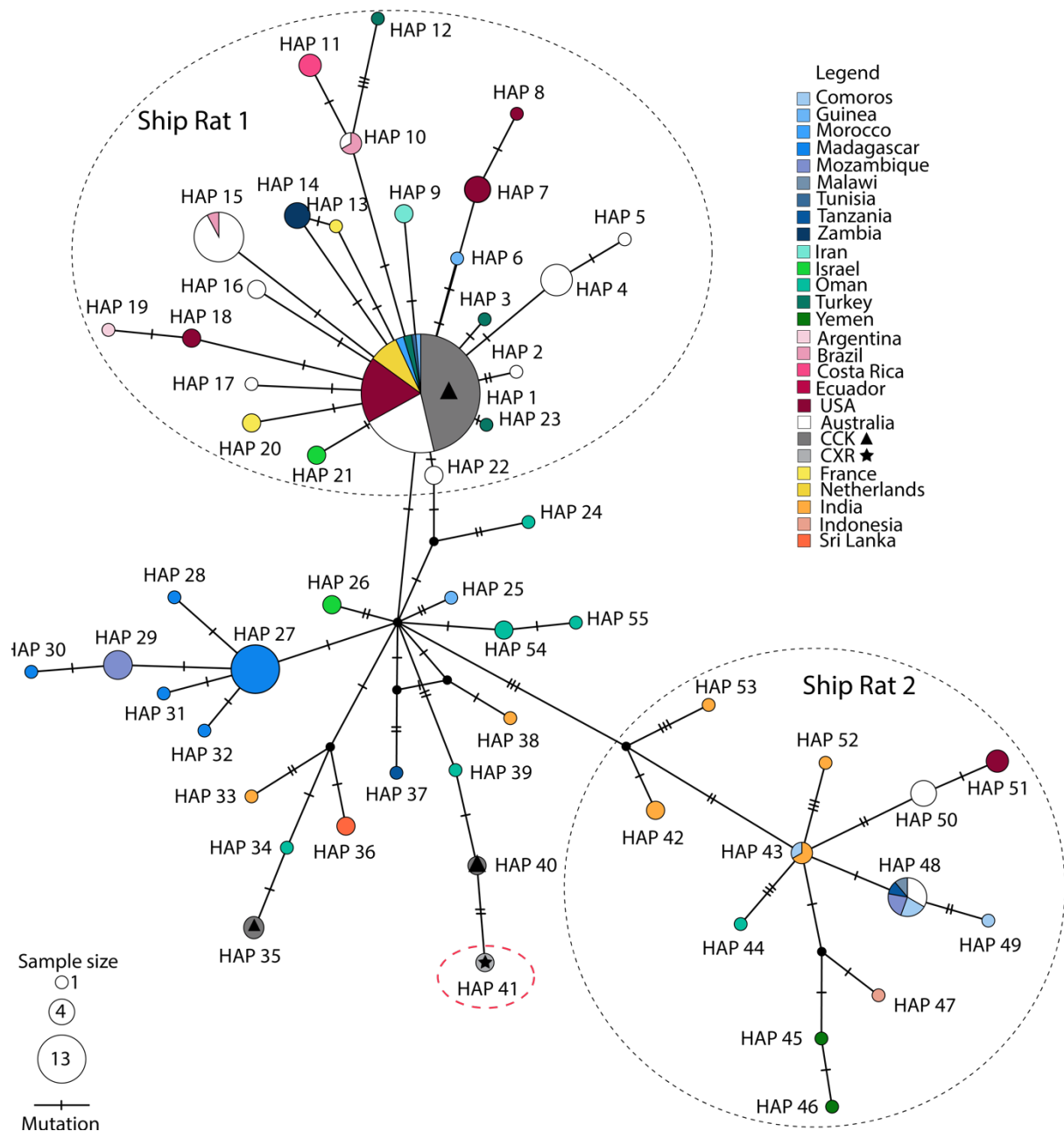
118652	THA	Buriram	IV	Backcross with pop 1?	0.71462	0.714	0.7167	0.001414
118549	THA	Kalasin	II	Backcross with pop 1?	0.57184	0.57191	0.57122	0.000380
118551	THA	Kalasin	IV	Backcross with pop 1	0.99476	0.99476	0.99475	0.000006
118658	THA	Kalasin	IV	Backcross with pop 1	0.99113	0.99114	0.99116	0.000015
118607	THA	Loei	II	F2	0.88116	0.88169	0.88206	0.000452
124430	VNM	LoGoXaMat	IV	Pure pop 1	0.99999	0.99999	0.99999	0.000000
124431	VNM	LoGoXaMat	IV	Pure pop 1	0.99843	0.99842	0.99842	0.000006
124416	VNM	NamCatTien	IV	Pure pop 1	0.99998	0.99998	0.99998	0.000000
124422	VNM	Pleiku	IV	Pure pop 1	0.9998	0.9998	0.9998	0.000000
124423	VNM	Pleiku	IV	Pure pop 1	0.99987	0.99987	0.99987	0.000000
124428	VNM	VinhLong	IV	Pure pop 1	0.99556	0.99556	0.99554	0.000012



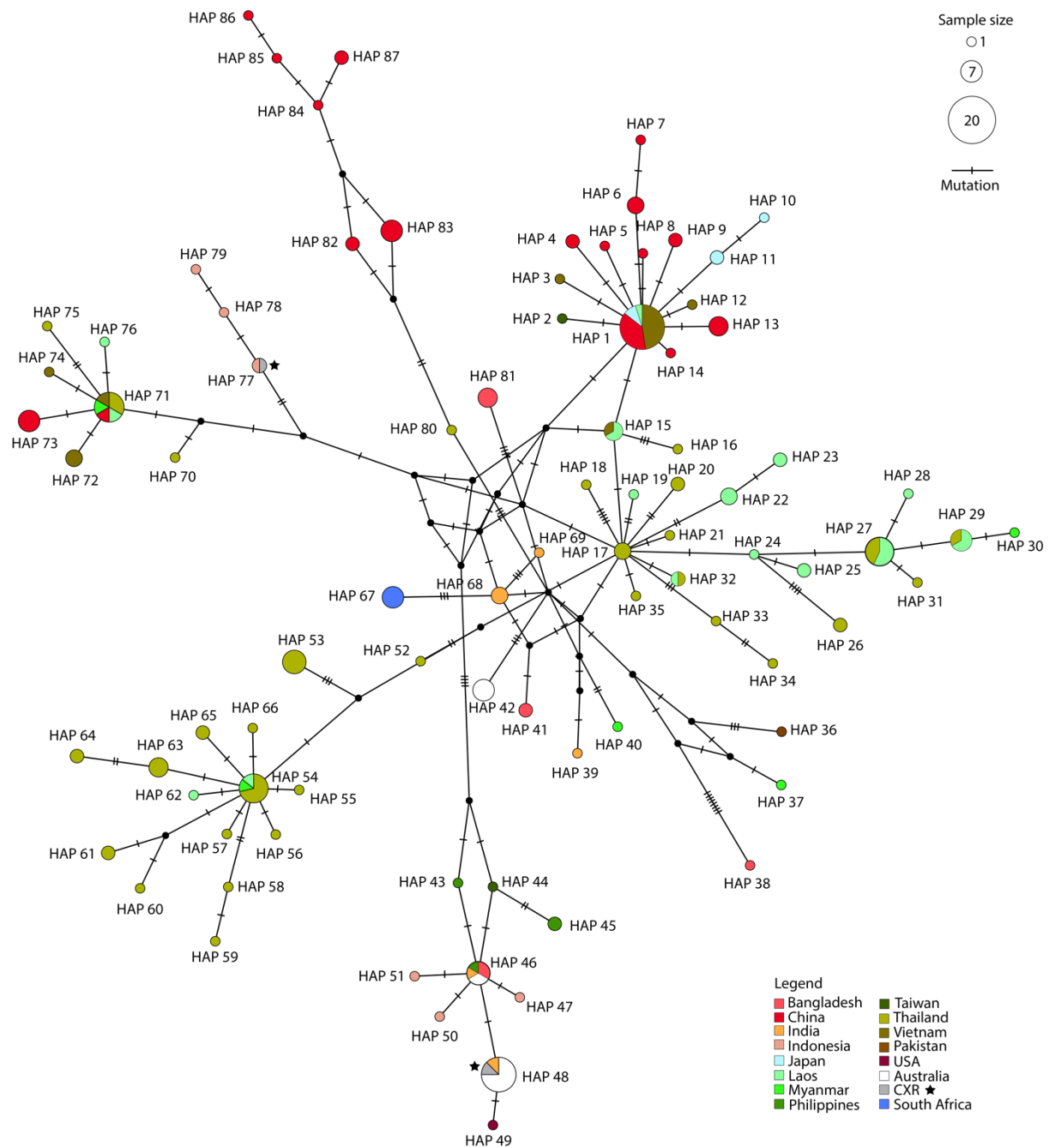
Supplementary Figure 1. Map of Cocos-Keeling Islands showing islands mentioned in the text. Figure obtained from CartoGIS Services, College of Asia and the Pacific, The Australian National University (<https://asiapacific.anu.edu.au/mapsonline/base-maps/cocos-keeling-islands>).



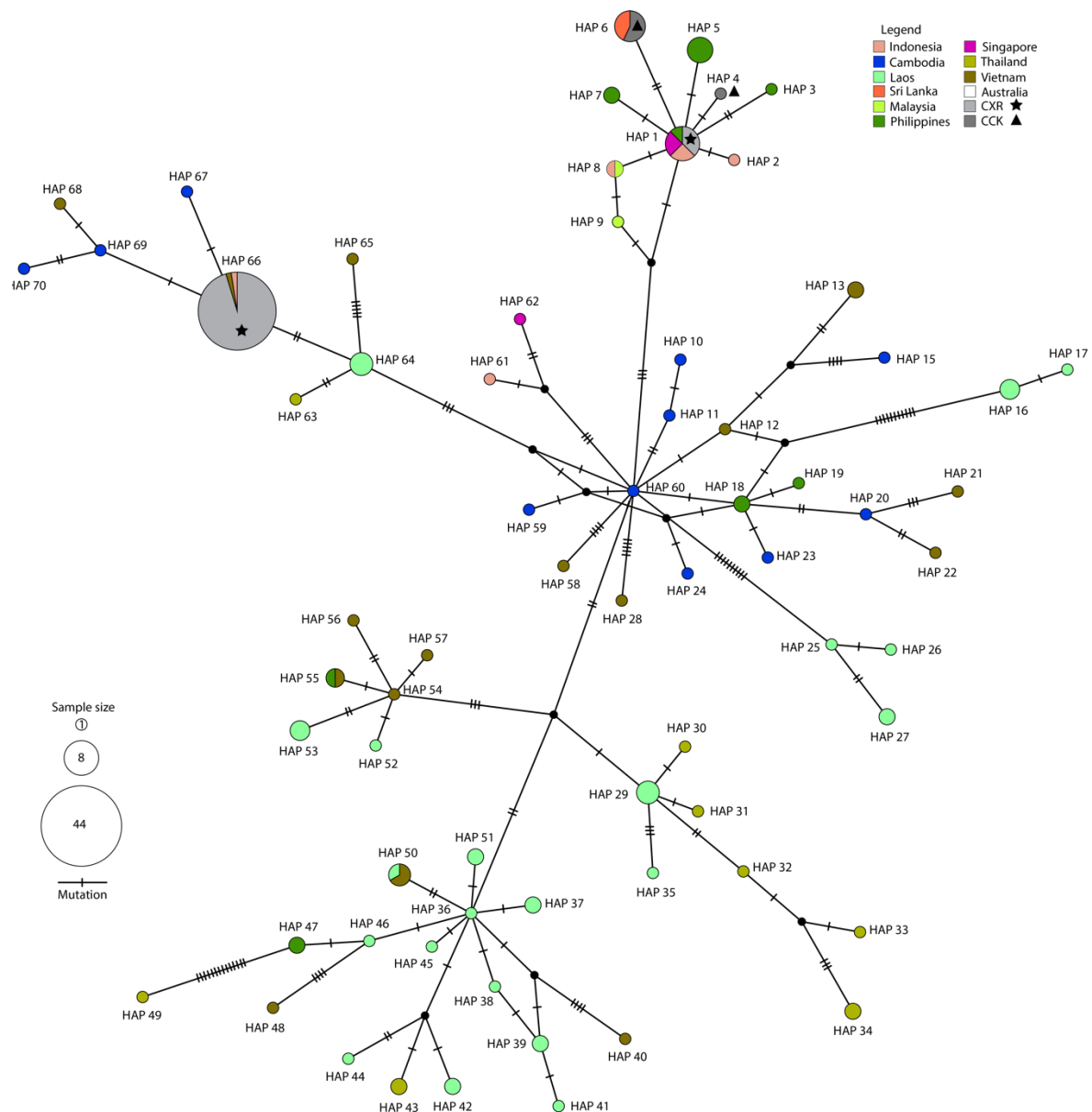
Supplementary Figure 2. Map of Christmas Island showing locations of cave sites where archaeological bone/teeth were retrieved.



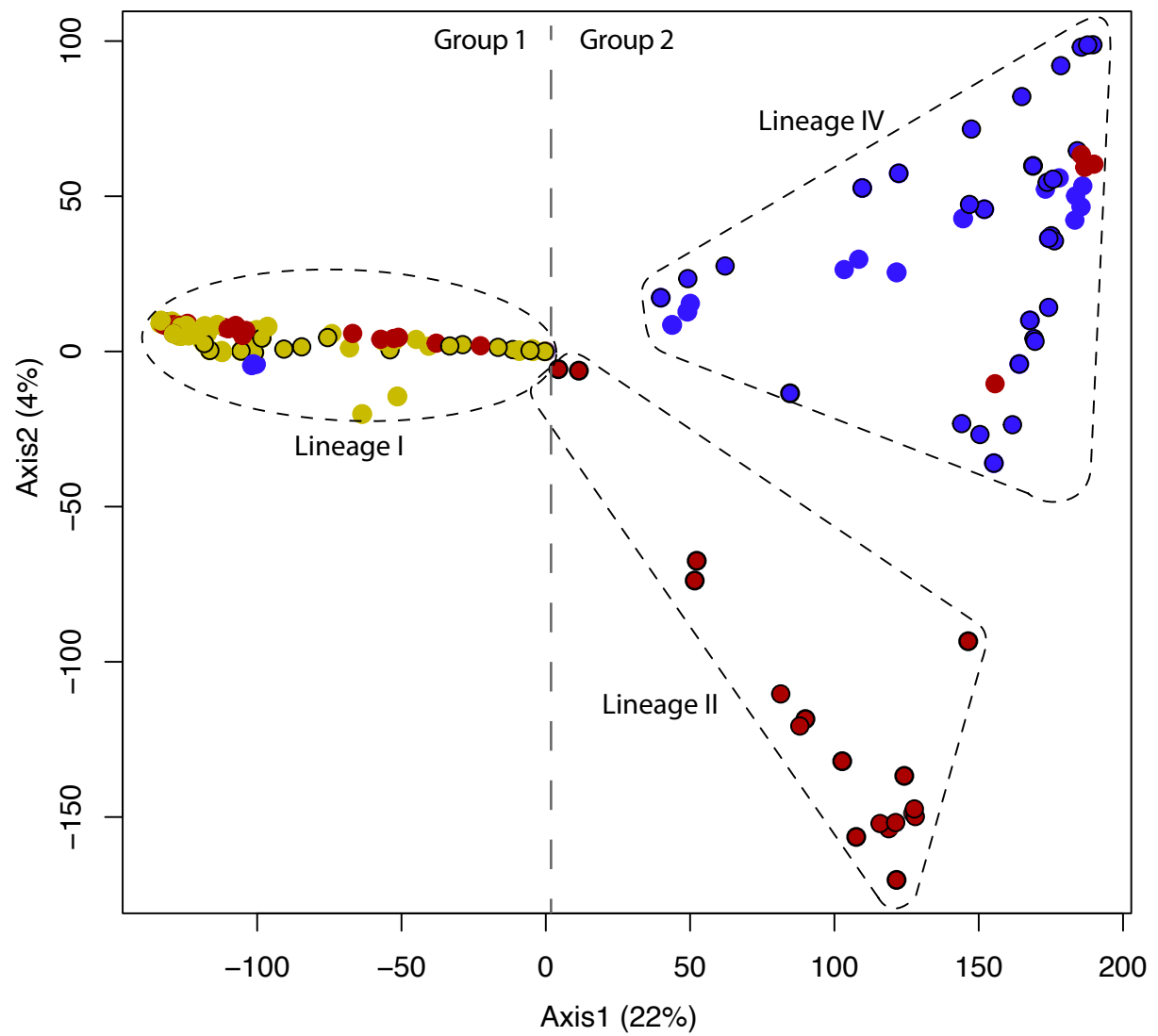
Supplementary Figure 3. Median-joining network of RrC mtClade I *cytochrome b* haplotypes from the eastern Indian Ocean and adjoining regions (945 bp). Haplotypes are numbered according Table S1. Each circle represents a unique haplotype with the size of the circle indicative of the number of samples having that haplotype. The colours represent the sampling location of each individual and the lines on the branches represent number of mutations between haplotypes. The triangles indicate haplotypes present on Cocos-Keeling Islands and stars indicate haplotypes present on Christmas Island. The red dashed outline highlights the H41-I haplotype shared by two CXR samples with different nuclear Lineage backgrounds (suggesting mitochondrial capture).



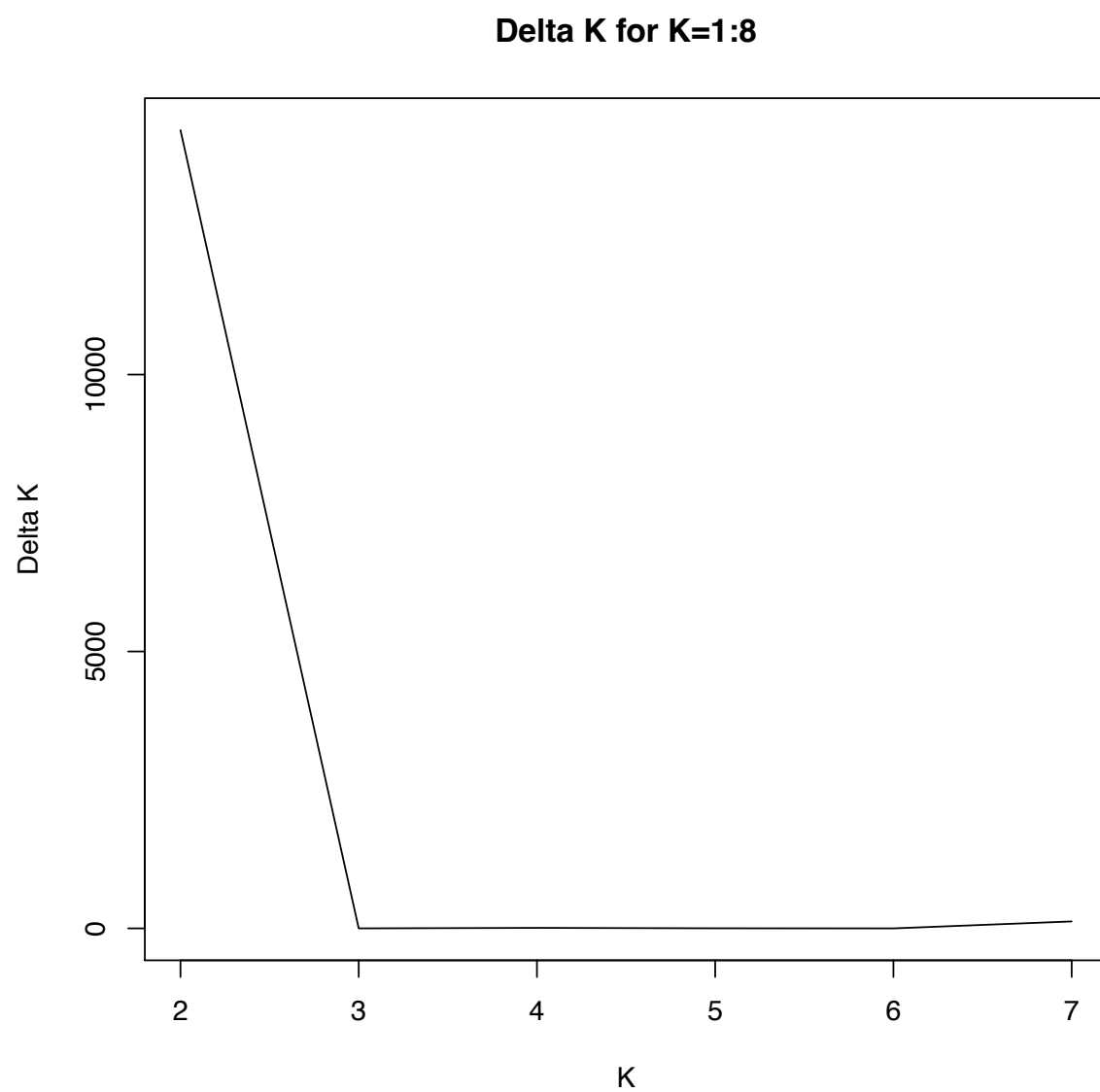
Supplementary Figure 4. Median-joining network of RrC mtClade II *cytochrome b* haplotypes from the eastern Indian Ocean and adjoining regions (945 bp). Haplotypes are numbered according Table S1. Each circle represents a unique haplotype with the size of the circle indicative of the number of samples having that haplotype. The colours represent the sampling location of each individual and the lines on the branches represent number of mutations between haplotypes. The stars indicate haplotypes present on Christmas Island.



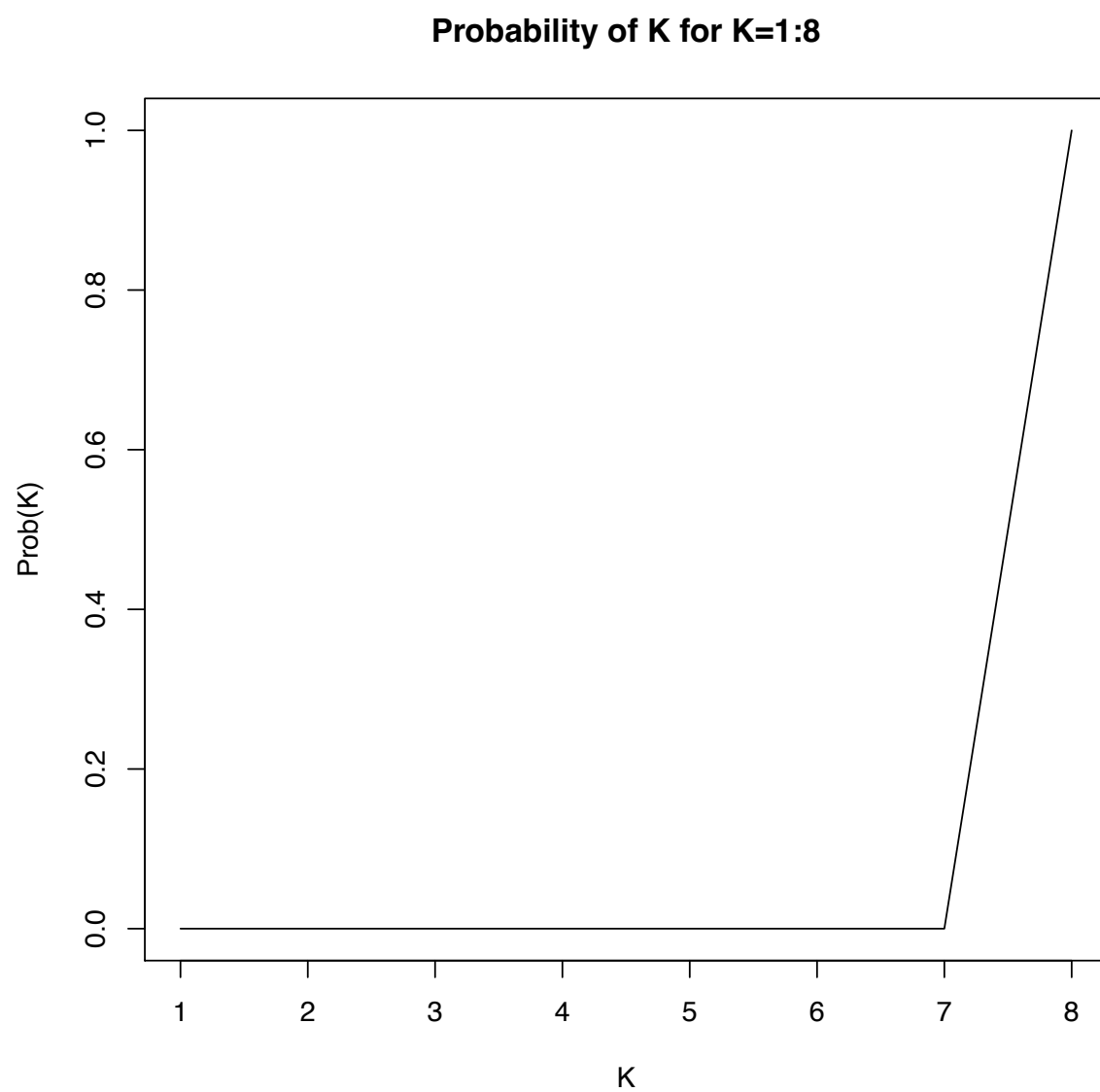
Supplementary Figure 5. Median-joining network of RrC mtClade IV *cytochrome b* haplotypes from the eastern Indian Ocean and adjoining regions (945 bp). Haplotypes are numbered according Table S1. Each circle represents a unique haplotype with the size of the circle indicative of the number of samples having that haplotype. The colours represent the sampling location of each individual and the lines on the branches represent number of mutations between haplotypes. The triangles indicate haplotypes present on Cocos-Keeling Islands and stars indicate haplotypes present on Christmas Island.



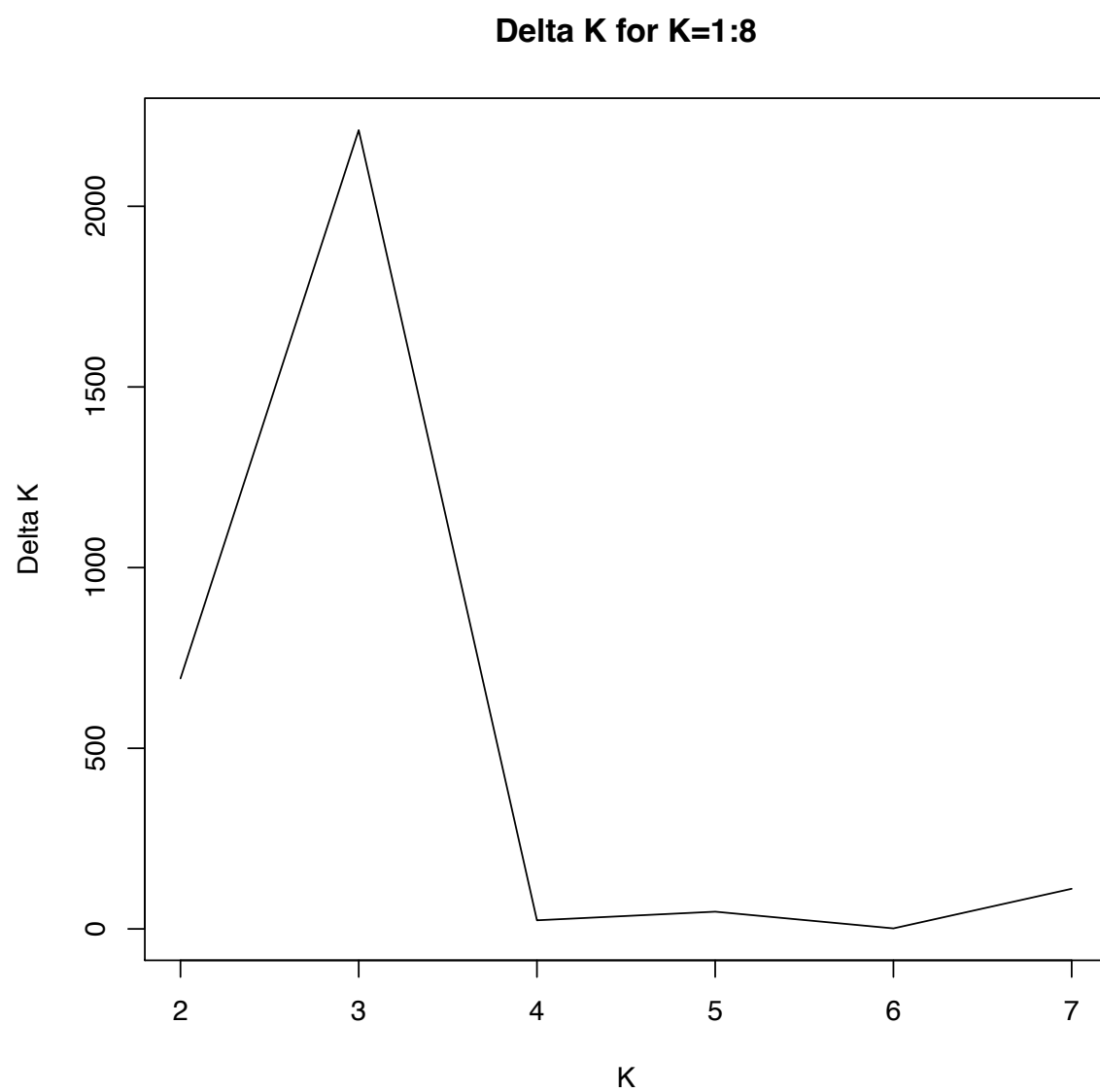
Supplementary Figure 6. PCA of the nuclear SNP dataset after removal of the CXR Lineage IV samples to examine how this affected the inferred relationships between the nuclear lineages.



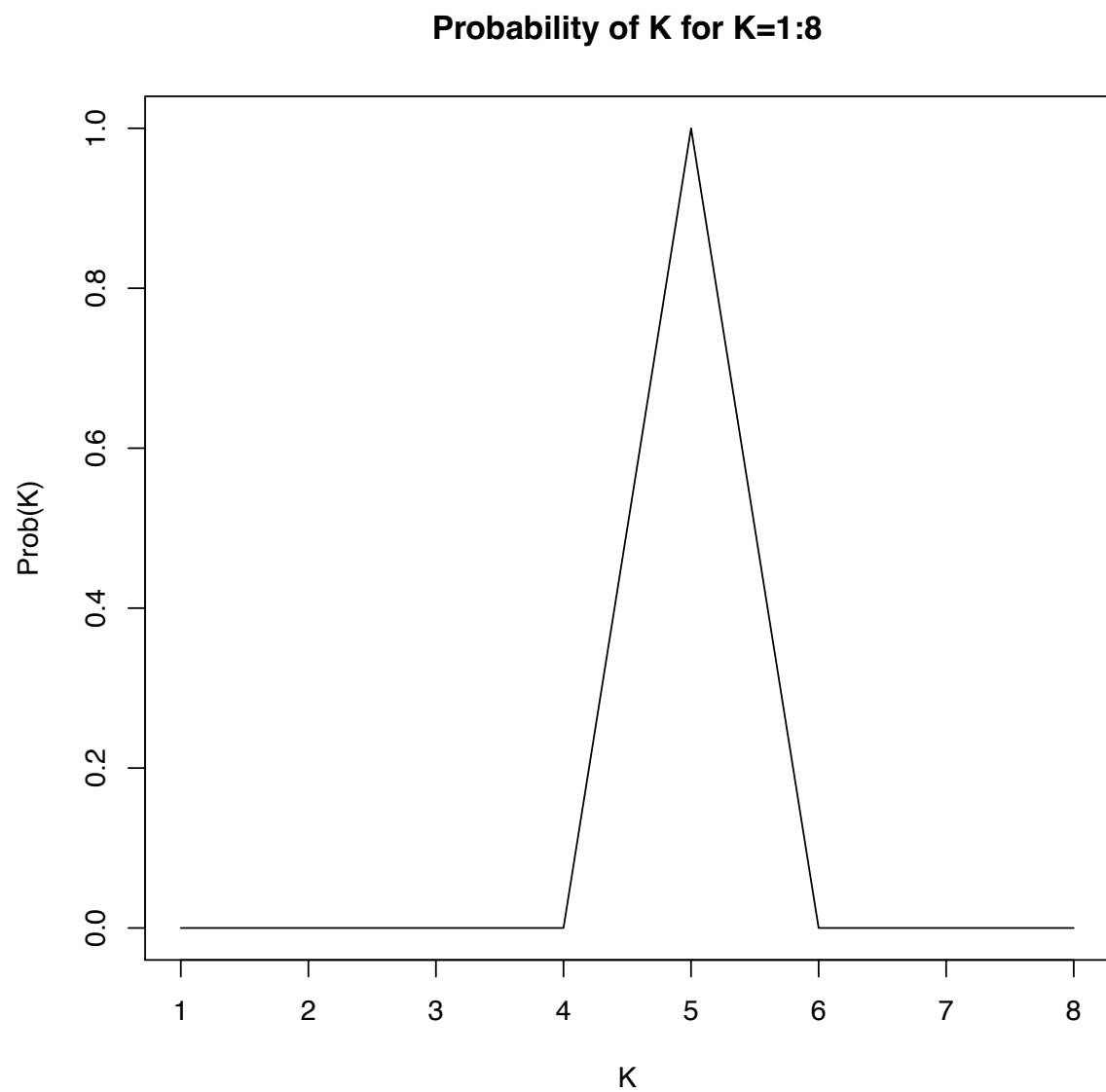
Supplementary Figure 7. Delta K values for the Structure analysis derived from CLUMPAK using all samples.



Supplementary Figure 8. Probability of K values for the Structure analysis derived from CLUMPAK using all samples.



Supplementary Figure 9. Delta K values for the Structure analysis derived from CLUMPAK using just Group 2 samples.



Supplementary Figure 10. Probability of K values for the Structure analysis derived from CLUMPAK using just Group 2 samples.

References:

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